32” LCD Monitor FLM-3201B

20050922

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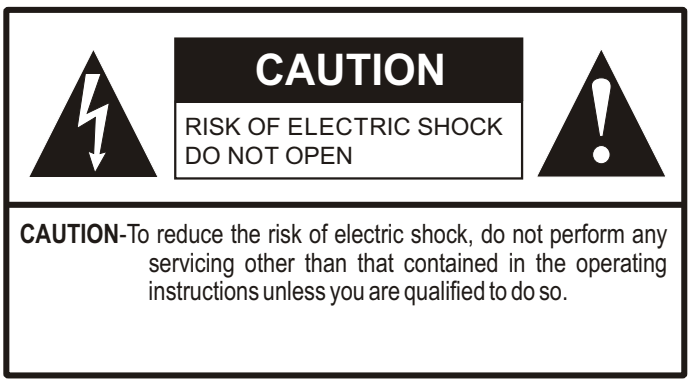
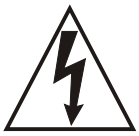
Important Information

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION-To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

FCC STATEMENT

FCC Notice

LCD Monitor: A CLASS B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by the manufacturer could cause harmful interference and would void the user's authority to operate this device.

WARNING: This is a CLASS B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to counter interference.

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD monitor product, please read the following precautions carefully before using the product.

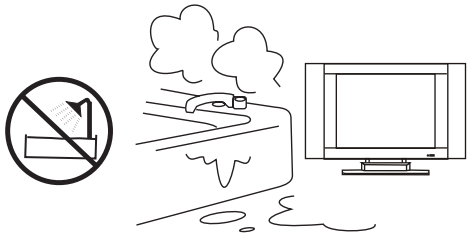
1. Read these instructions---All operating instructions must be read and understood before the product is operated.

2. Keep these instructions---These safety and operating instructions must be kept in a safe place for future reference.

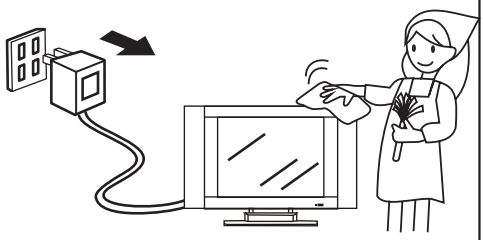
3. Heed all warnings---All warnings on the product and in the instructions must be observed closely.

4. Follow all instructions---All operating instructions must be followed.

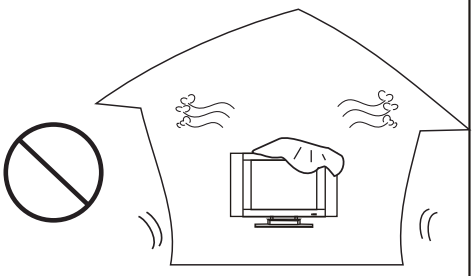
5. Do not use this apparatus near water---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



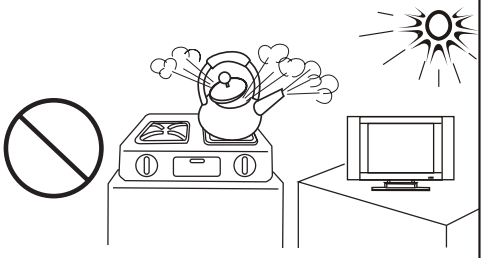
6. Clean only with dry cloth---Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



7. Ventilation---Do not block any ventilation openings. Install in accordance with the manufacturer instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



8.Heat sources---Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



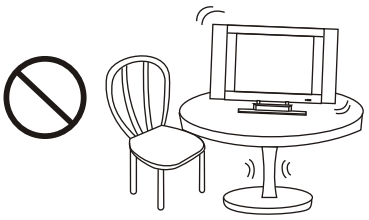
9.Grounding or Polarization---Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10.Power cord protection---Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11.Attachments---Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

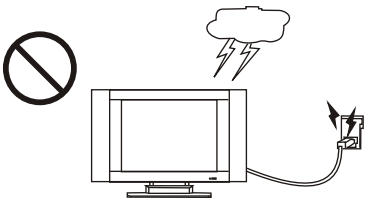
Important Safety Precautions (continued)

12. Stand---Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



13. Move Carefully---When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.

14. Lightning---Unplug this apparatus during lightning storms or when unused for long periods of time.
For added protection for this apparatus during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the equipment due to lightning and power-line surges.



15. Servicing---Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

16. Replacement parts---In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

17.Overloading---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

18.Entering of objects and liquids---Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

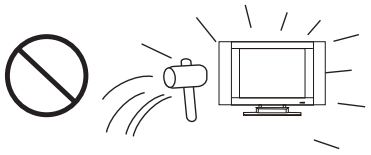
19.Damage requiring service---If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
a. When the power cord or plug is damaged.
b. When a liquid is spilled on the product or when objects have fallen into the product.
c. When the product has been exposed to rain or water.
d. When the product does not operate properly as described in the operating instructions.
Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
e. If the product has been dropped or the cabinet has been damaged in any way.
f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

20.Safety checks---Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

21.Wall or ceiling mounting---When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

22. Power source---This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock.

23.Panel protection---The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.

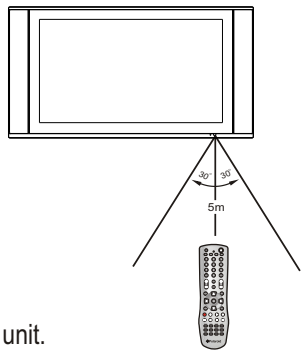


24.Pixel defect---The LCD panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Preparations

Using the Remote Control

■ Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.



***Note**: This illustration is for reference only. The remote sensor may be in different locations on different models.*

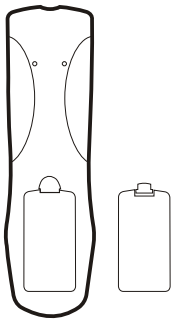
Cautions regarding use of remote control

■ Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.
■ Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
■ The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or the LCD monitor, or operate the remote control closer to the remote sensor window.

Batteries for the Remote Control

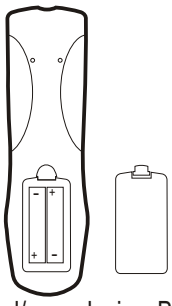
If the remote control fails to operate the LCD monitor functions, replace the batteries in the remote control.

1 Open the battery cover.

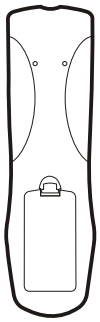


2 Insert two size-AA batteries.

■ (Place the batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.)



3 Replace the cover.

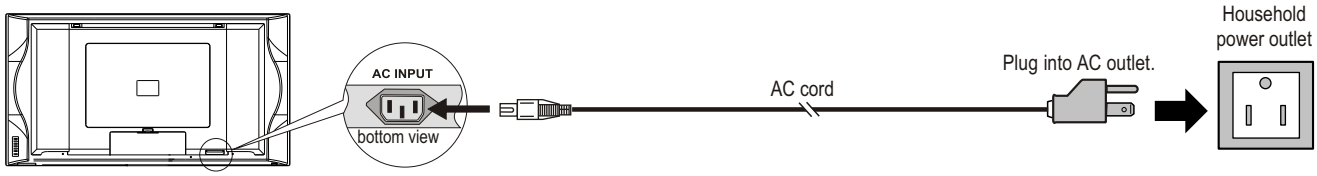


Precaution on battery use

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

■ Place batteries with their terminals corresponding to the (+) and (–) indications.
■ Different types of batteries have different characteristics. Do not mix batteries of different types.
■ Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
■ Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.
■ The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
■ If the remote control is not used for an extended period of time, remove the batteries from the remote control.

Power Connection

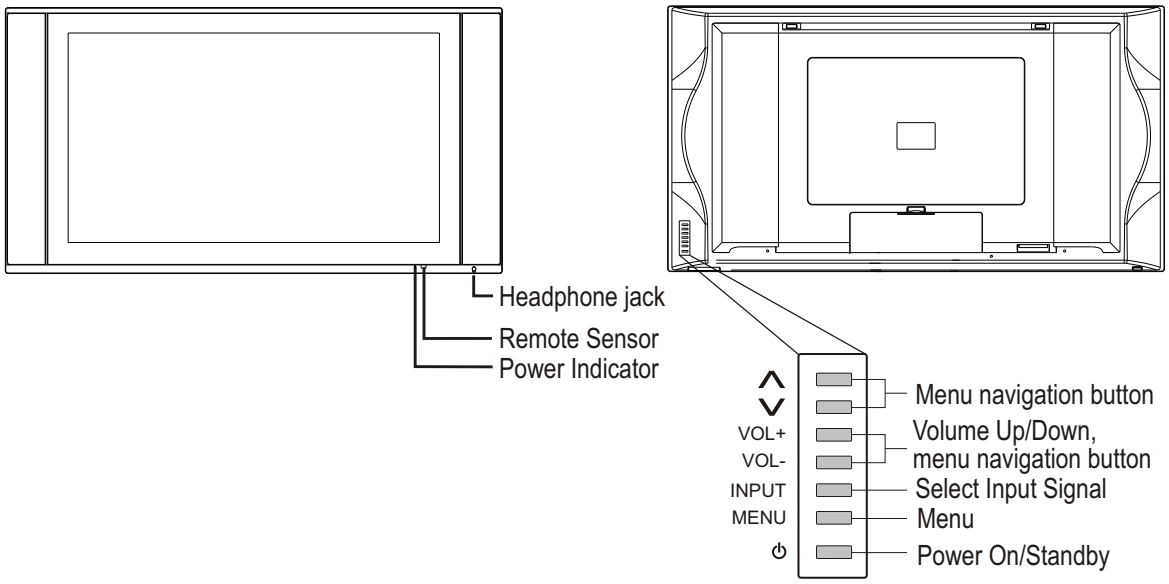


1. Connecting the female plug to the AC socket on the unit.
2. Connecting the male plug to the wall outlet as illustrated.

Note:

■ *This illustration is for reference only. The AC plug may be different on different models.*
■ *This product should be operated only from the type of power source indicated on the marking label.*
■ *Always unplug the AC cord from power outlet when not using for a long period of time.*

Main Unit



1. POWER ⏻
Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY.

2. INPUT
To access signal source select menu.

3. MENU
Press this button to access the Menu main page**.**

4. ∨,∧ **: menu navigation buttons**
In OSD Menu, press these buttons to choose the OSD items.

5. VOL+/-
Press the **VOL+** or **VOL-** button to directly increase or decrease the sound volume level;
In OSD Menu, press these buttons to adjust the value or setting of each item**.**

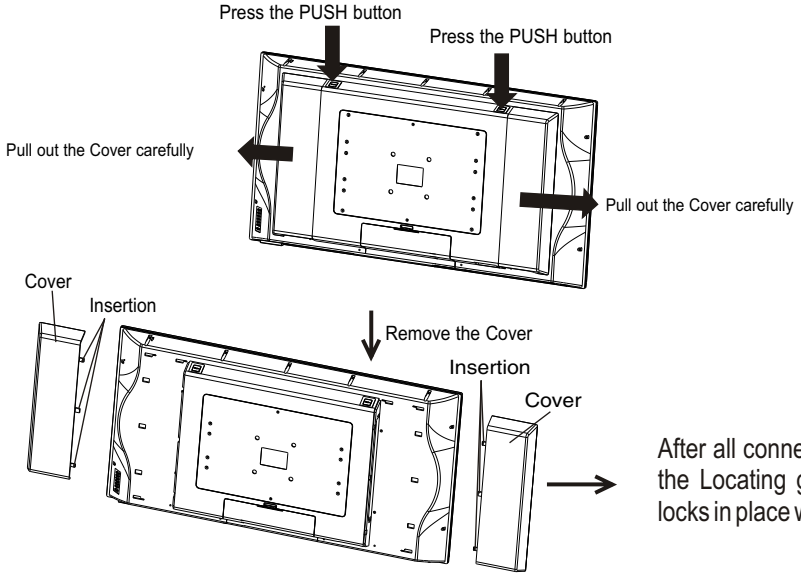
Note:

*Functions of **VOL+/-**,* ∨/∧, ***MENU***, ***INPUT*** *and* ***POWER***⏻ *are also provided to the remote control. This operation manual provides a description based on operating functions with the remote control.*

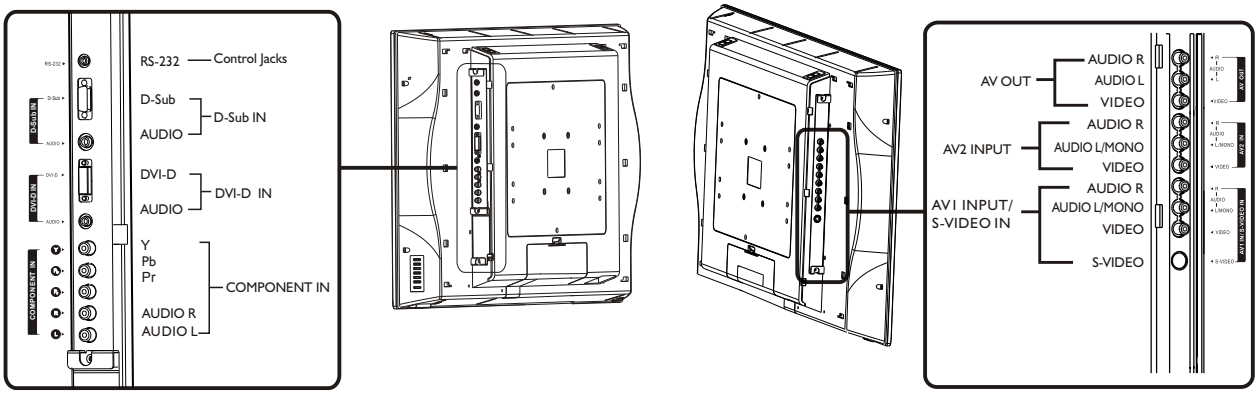
Identification of Controls (continued)

Main Unit

Removing or installing the Back Cover



After all connections are made, aim the Insertion tabs toward the Locating grooves, then carefully push the Cover until it locks in place with a click.

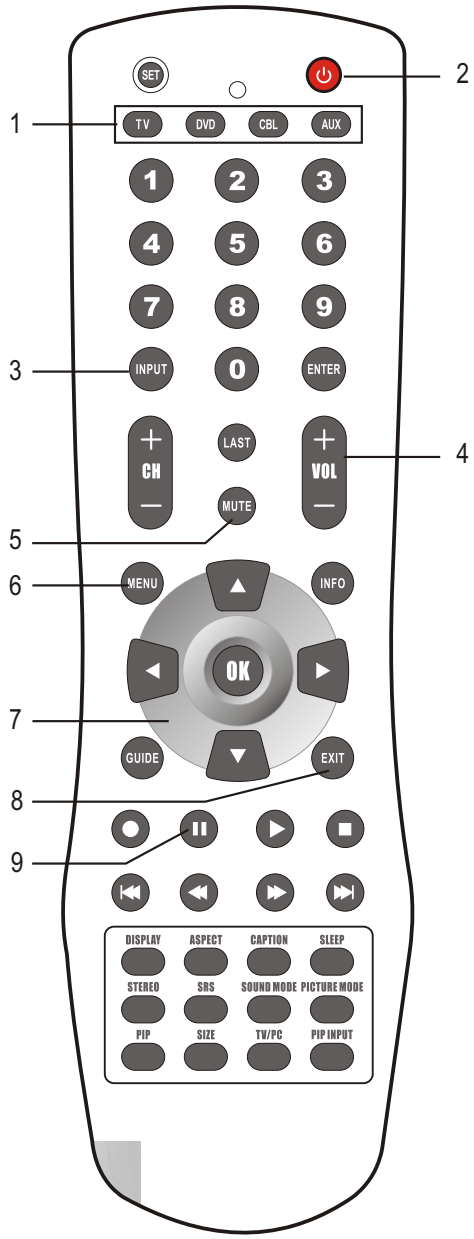


1. **Control Jacks (RS-232)**
   To be used for computer control.
2. **D-Sub(VGA) input /Audio in**
   Connect to the VGA/audio output jacks on your PC.
3. **DVI input /Audio in**
   Connect to the DVI/audio output jacks on your DTV receiver.
4. **COMPONENT input** (Y, Pb/Cb, Pr/Cr, Audio L, R)
   Connect to the audio and component output jacks of a DVD player or Set-Top Box.
5. **AV outputs** (Video, Audio L, R)
   Connect to the VCR input jacks to record programs.
6. **AV2 inputs** (Video, Audio L/mono, R)
   Receive video/audio signals from external sources such as VCR or DVD player.
7. **AV1 inputs** (Video, Audio L/mono, R) **/ S-Video input**
   Receive video/audio signals from external sources such as VCR or DVD player.
   Receive a S-Video signal from external source such as VCR or DVD player.

Note:

The AV output terminals output the audio/video signal from the AV inputs.

Remote Control



1. To select products to be controlled with remote control

Note: This remote control is an **universal** remote control. If your remote control does not work correctly when you operate the LCD monitor, please try to press **TV** button.

2. POWER ⏻
Turn the unit on or off

3. INPUT
To access source input select menu

4. VOL+/-
Used to adjust volume.

5. MUTE
Sound mute

6. MENU
To access the Menu main page or exit menu operation

7. Menu navigation button: ▲ ▼ ◀ ▶
In Menu operation, use ▲/▼ to select menu item;
Use ◀ / ▶ to adjust selected item;

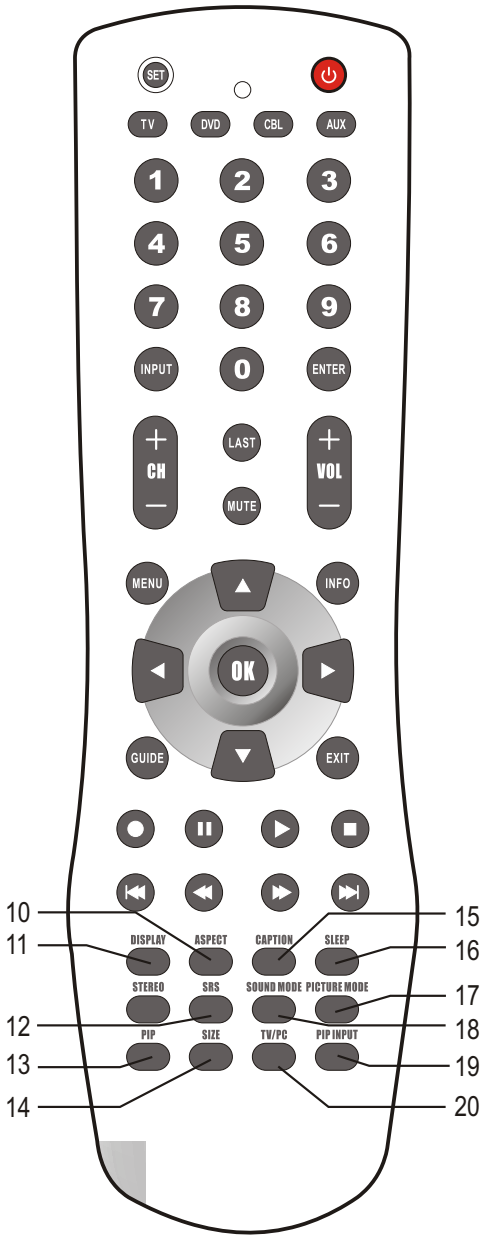
OK button
To confirm, enter submenu or toggle between the settings of the selected menu item.

8. EXIT
Used to exit the current menu and return to upper level menu.

9. PAUSE button ⏸
To pause the picture. (Only in AV mode)

Identification of Controls (continued)

Remote Control



10. ASPECT
To select screen aspect ratio

11. DISPLAY
To display the monitor's current status information

12. SRS
To turn on or off the SRS sound effect *

13. PIP
To activate picture-by-picture

14. SIZE
To adjust TVPC frame size

15. CAPTION
To select CCD on/off and CCD channel

16. SLEEP
To set Sleep timer

17. PICTURE MODE
Picture mode select

18. SOUND MODE
Sound mode select

19. PIP INPUT
To select signal input source for TVPC or PIP frame

20. TV/PC
To activate TVPC function

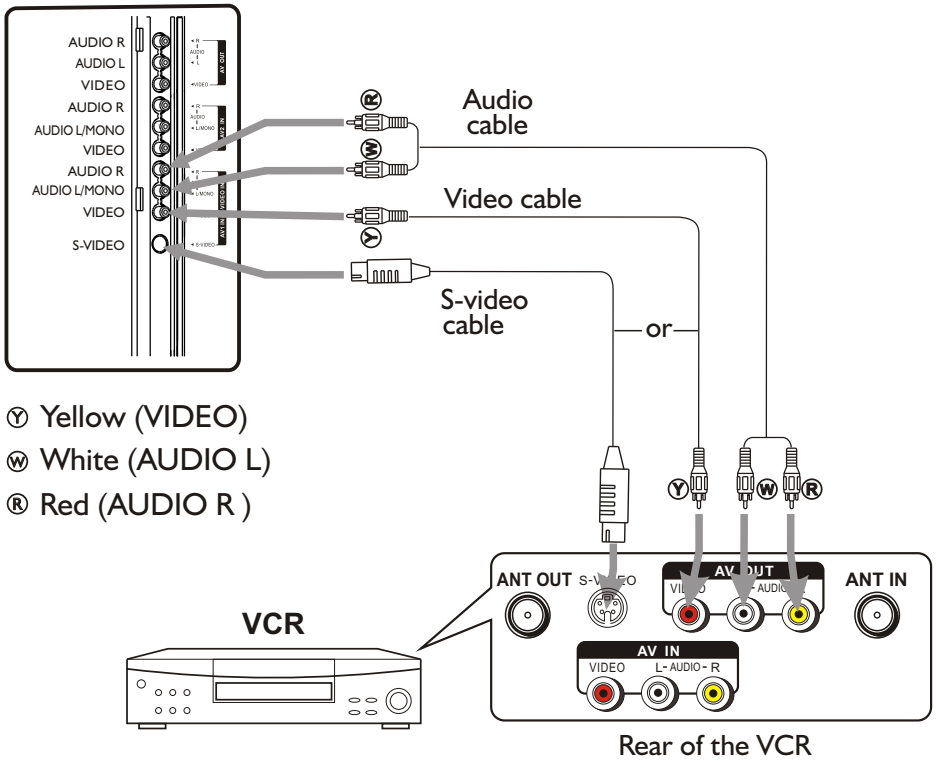
Note:
The TVPC function means you may view a video program from a mini window while the main window is displaying a PC screen.

* The SRS symbol is a trademark of SRS Labs,Inc.
SRS technology is incorporated under license from SRS Labs, Inc.

Cautions Before Connecting

- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or color problems. Make sure that all connectors are securely inserted into their terminals. Refer to the operating manual of the external device as well.
- When connecting an external device, turn the power off on the panel to avoid any issues.

To connect AV1/S-video input terminals



How to connect:

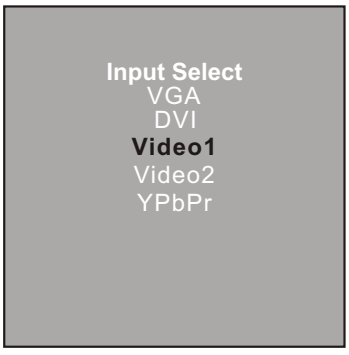
Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

Note:

For better video, you can use the S-video terminal if your source supports it.
The S-video terminal is prior to Video terminal when they are connected at the same time. To use Video terminal, you should disconnect S-video.

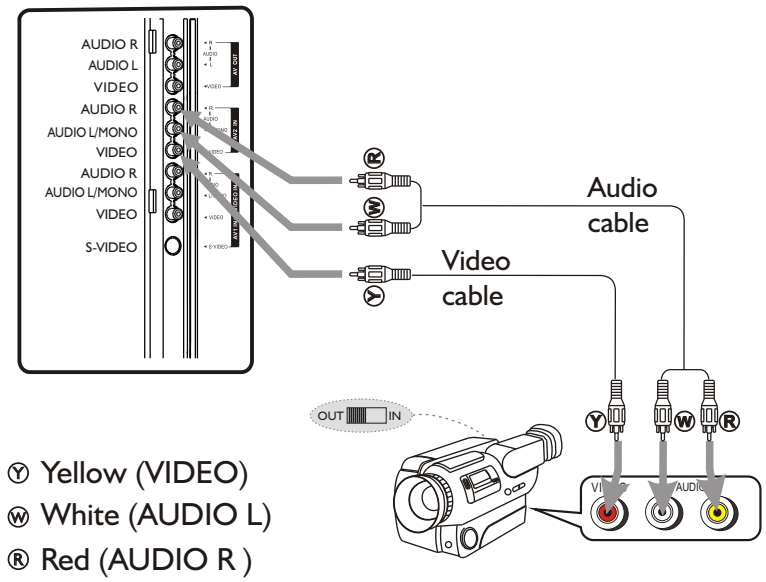
To play VCR

1. Turn on your LCD monitor, press **INPUT** button on the remote control.
2. Press ▲ or ▼ to select ***Video1***(AV1 IN) and press **OK** to confirm.
3. Turn on your VCR , insert a videotape and press the Play button.



Connections (continued)

To connect AV2 input terminals

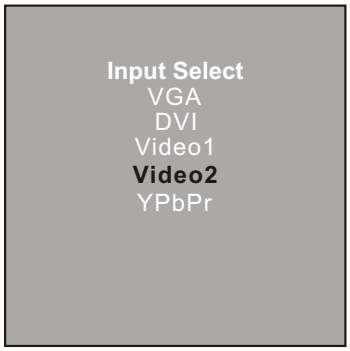


How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

To playback Camcorder

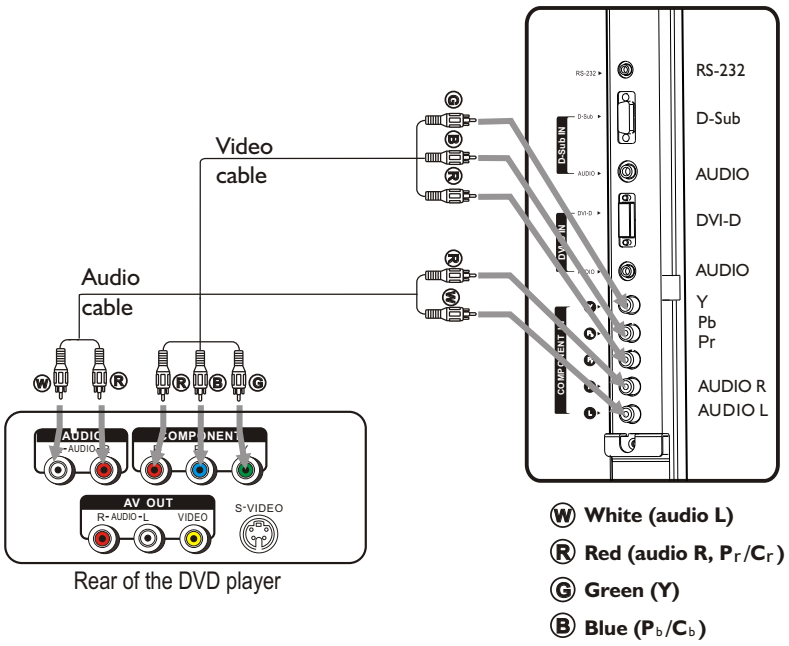
1. Turn on your LCD Monitor , press **INPUT** button on the remote control.
2. Press ▲ or ▼ to select **Video2** and press **OK** to confirm.
3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder owner's manual.)
4. Insert the tape into the camcorder and press Play button.



Note:

The operations of the camcorder may be different and is dependent on your model.
Please read the owner's manual of your camcorder to confirm operation.

To connect Component input terminals



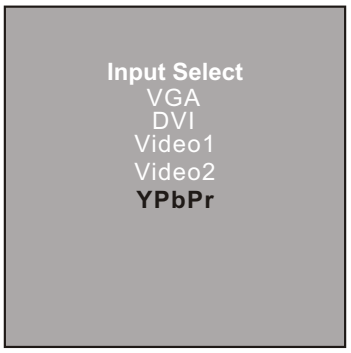
How to connect a DVD Player (or Set-Top Box) using Component Video Connections:

Connect the Video cable between the Y, Pb, Pr input jacks on the unit and Y, Pb, Pr output jacks on the DVD player (or Set-Top Box).

Connect the Audio cable between the AUDIO input jacks on the unit and AUDIO output jacks on the DVD player (or Set-Top Box).

To play DVD or Set-Top Box

1. Turn on your LCD Monitor , press **INPUT** button on the remote control.
2. Press ▲ or ▼ to select **YPbPr**.
3. Press **OK** to confirm.
3. Turn on your DVD player (or Set-Top Box) .

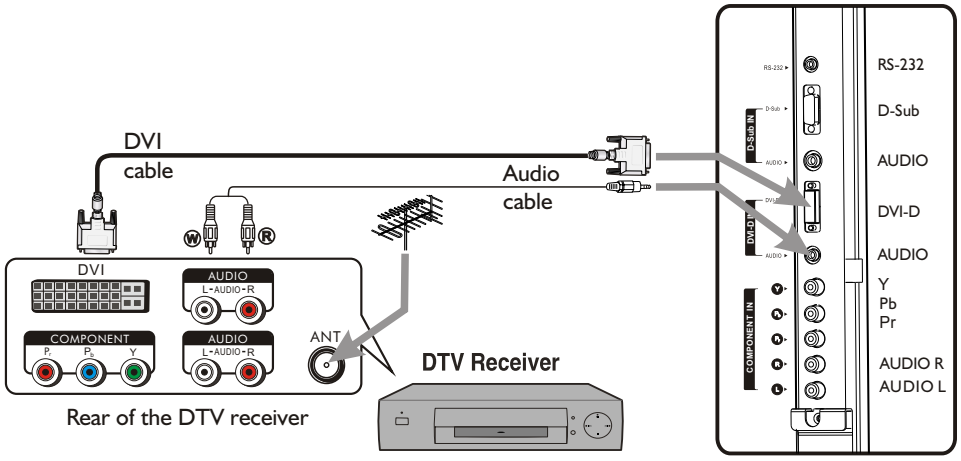


Note:

The Y, Pb, Pr outputs on your DVD player are sometimes labeled Y, Cb, Cr or Y, U, V. If so, connect the cables to like colors.

Connections (continued)

To connect DVI input

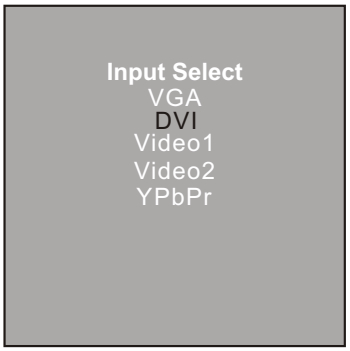


How to connect:

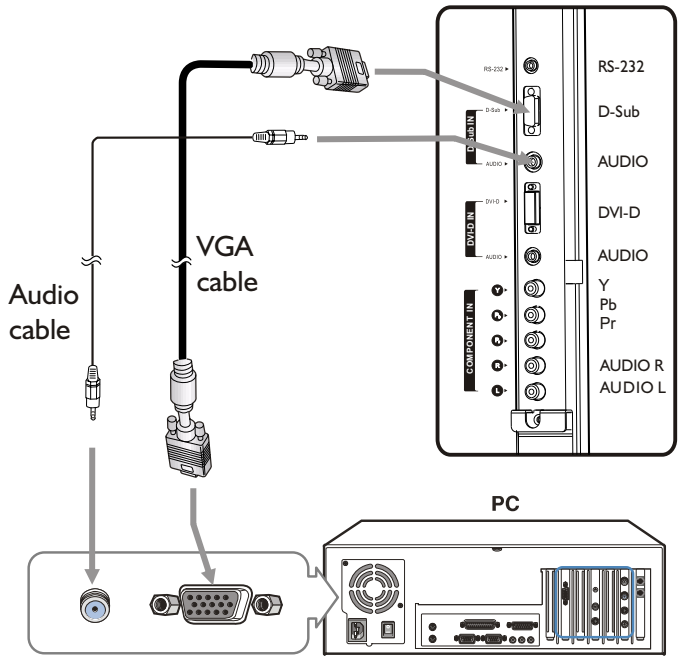
Connect the cable or antenna to the antenna input jack on the DTV receiver.
Connect the DVI cable between the DVI input interface on the unit and DVI output interface on the DTV receiver .
Connect the Audio cable between the AUDIO input jack on the unit and AUDIO output jacks on the DTV receiver.

To Watch DTV

1. Turn on your LCD Monitor , press **INPUT** button on the remote control.
2. Press ▲ or ▼ to select **DVI**.
3. Press **OK** to confirm.
4. Turn on your DTV receiver.



To connect D-Sub input



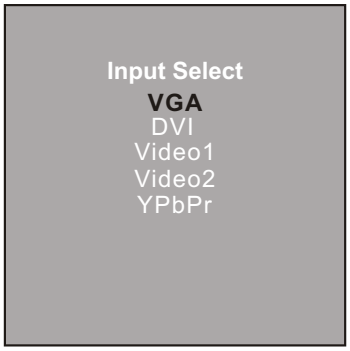
How to connect:

Connect a VGA cable between the VGA jack on the PC and the VGA (D-Sub) input jack on the unit.

Connect an Audio cable between the AUDIO output on the PC and AUDIO input jack on the unit.

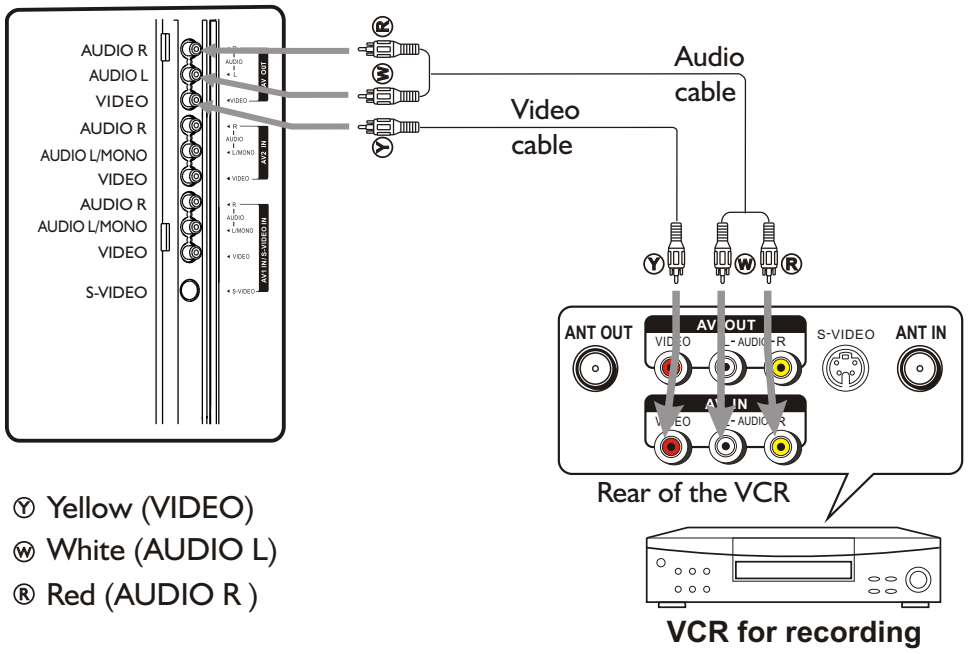
To Watch the PC screen

1. Turn on your LCD Monitor , press **INPUT** button on the remote control.
2. Press ▲ or ▼ to select **VGA**.
3. Press **OK** to confirm.
4. Turn on your PC and check for PC system requirements.
5. Adjust the screen resolution and settings on your computer to the preferred settings.



Connections (continued)

To connect AV output terminals



Ⓨ Yellow (VIDEO)
ⓦ White (AUDIO L)
® Red (AUDIO R)

How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.
Or connect the Audio cable between the Audio (L/R) jacks on the unit and Audio amplifier.

How to record program

1. Turn on your LCD Monitor, select a program you wish to record.
2. Turn on your VCR, insert a videotape for recording.
3. Press the Record button to begin recording.

How to enjoy high quality sound by Audio amplifier

1. Connect cables as shown above.
2. Turn the volume of the Audio amplifier to minimum.
3. Turn on the LCD Monitor and select input.
4. Turn on the audio amplifier and adjust for a proper volume.

Note:

The AV output terminals output the audio/video signal from the AV inputs.

Turning the Unit On and Off

Turning On

Insert the power cord into the wall outlet.
Press the **Power** ⏻ button on the remote control.
The unit will be turned on and you will be ready to use it's features.

Turning Off

With the power on, press the **Power** ⏻ button on the remote control to turn off.

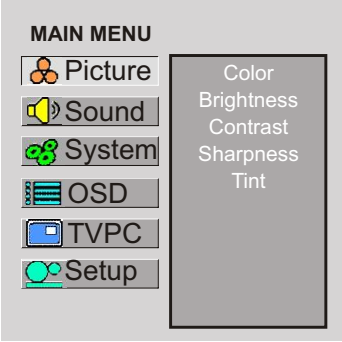
Note:
*You can also use the **Power** ⏻ button on the control panel on the main unit.*

Viewing the Menus and Displays

Your LCD Monitor has a simple, easy-to-use menu system that appears on the screen. This system makes it convenient and fast to use features on the unit. The unit also lets you display the status of many of your LCD Monitor features.

Viewing the Menus

1 With the power on, press the **MENU** button on the remote control. The main menu appears on the screen. The picture menu is selected.



(The above OSD is shown as an example. It is under AV mode)

2 Use the ▲ or ▼ to select menu item. Use ◀ or ▶ to adjust value of item. Use **OK** to confirm ,enter submenu or toggle the settings of the selected menu item.
you can press the **MENU** button repeatedly to exit the menu operations.

Note:

To clearly introduce the menu operations , this operation manual provides a description based on operation with the remote control.

Displaying Status Information

Press the **DISPLAY** button on the remote control, the unit will display current status information such as signal source, etc.

Basic Operations

Adjusting the Volume

Using the volume buttons (VOL+ and VOL-)

Press the **VOL +** or **VOL-** to increase or decrease the volume.

Using the Mute

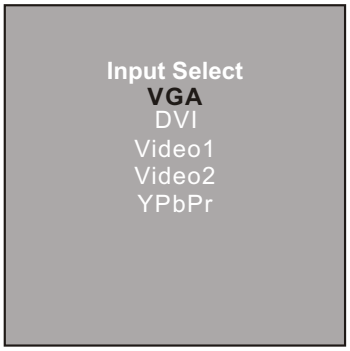
Using the MUTE button

At any time, you can temporarily cut off the sound using the MUTE button.

1 Press the **MUTE** button and the sound cuts off.

2 To turn mute off, press the **MUTE** button again.

Selecting Input Source Signal



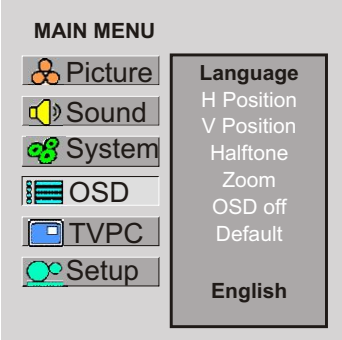
1 Press the **INPUT** button to access **Input Select** menu.

2 Press ▲ or ▼ to select a desired input source.

3 Press **OK** to confirm and the unit displays signal from the selected input source.

VGA------Select signal from VGA (15-pin D-sub) interface.
DVI -------Select signal from DVI interface.
Video1-------Select signal from AV1/S-video IN terminals.
Video2-------Select signal from AV2 IN terminals.
YPbPr ------Select signal from YPbPr terminals.

Selecting a Menu Language



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **OSD** item.

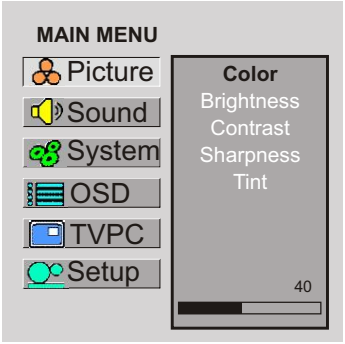
3 Press **OK** to access the submenu.
The **Language** item will be highlighted automatically.

4 Press **OK** to toggle between **English, French** and **Spanish.**

5 Press **MENU** to exit.

Setting Picture

Customizing the Picture



1 Press **MENU** to display the menu main page.
The picture menu page will be displayed automatically.

2 Press **OK** to access the **Picture** submenu.

3 Press ▲ or ▼ to select the item you wish to change.

4 Press ◀ or ▶ to adjust the value of the item.

5 Press **MENU** to exit.

In AV(VIDEO1, VIDEO2) mode

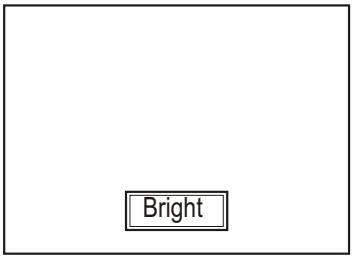
Option	Function	Operation	Range
Color	Adjusts color saturation.	▶ : deeper ◀ :paler	0~100
Brightness	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.	▶ : lighter ◀ :darker	0~100
Contrast	Adjusts image contrast.	▶ : stronger ◀ : weaker	0~100
Sharpness	Adjusts image sharpness and displays a sharp image.	▶ : sharper ◀ : softer	0~100
Tint	Adjusts tint for image.	▶ : greenish ◀ :purplish	0~100

In VGA/DVI mode

Option	Function	Operation	Range
Brightness	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.	▶ : lighter ◀ : darker	0~100
Contrast	Adjusts image contrast.	▶ : stronger ◀ : weaker	0~100
Sharpness	Adjusts image sharpness and displays a sharp image.	▶ : sharper ◀ : softer	0~100
Color Temp	Adjusts preset color temperature.	Use **OK** to toggle	6500K 9300K 12000K

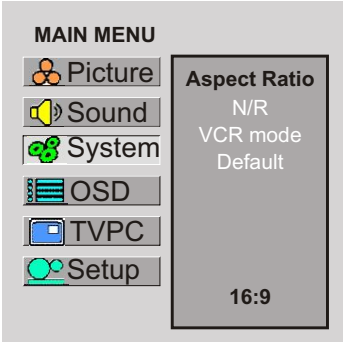
Using the Preset Picture Mode

Use the **PICTURE MODE** button to quickly select picture mode.
There are three preset picture modes (**Bright, Soft** and **Nature**) and one user-set picture mode (**User**). Each preset mode has its own picture settings.
Bright: Select for a bright picture.
Soft: Select for a finely detailed picture.
Nature: Select for a normal picture.
Adjusted settings are stored in User mode.



Setting System In AV Mode

Adjusting Screen Aspect



1 Press **MENU** to display the menu main page.

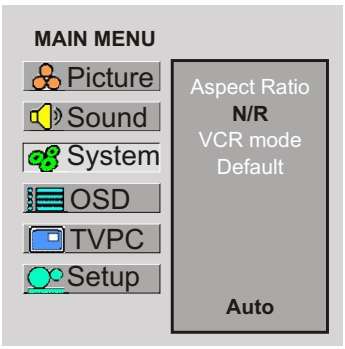
2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.
The **Aspect Ratio** item will be highlighted automatically.

4 Press **OK** repeatedly to select a desired aspect ratio.
You can select the image aspect ratio between **4:3, Panorama, Zoom** and **16:9,**.
4:3 — For 4:3 signal format. This mode displays a 4:3 picture at its standard 4:3 size without any stretching.
16:9 — For 16:9 signal format. This mode displays 16:9 aspect ratio picture.
Panorama — In this mode the picture is progressively stretched toward each side of the screen.
Zoom — For 4:3 letterbox signal format. This mode stretches the picture horizontally and crops the top and bottom black bars of the picture.

Note:
*You may quickly select the screen aspect by using the **ASPECT** button on the remote control.*

Reducing Picture Noise



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

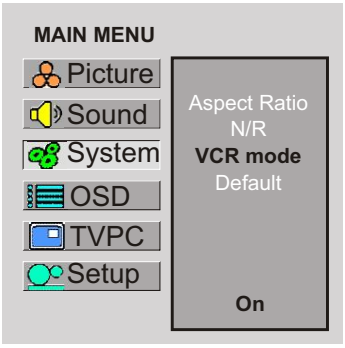
3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **N/R** item.

5 Press **OK** to select **Off**, **Auto**, **Strong**, **Middle** or **Weak**.

Sometimes a noisy picture may appear on the screen because of poor signal. This function helps to enhance the picture quality by reducing the noise.

VCR mode



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **VCR mode** item.

5 Press **OK** to select **On** or **Off**.

When you are watching VCR program type or receiving weak signal, please set the "**VCR mode**" item to "**On**". It helps to obtain a better synchronization and improve the stability of the picture.

Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System (continued)

Setting System In VGA Mode

Changing the Position of Image

The unit allows you to adjust the position of the screen if it is not well-aligned.

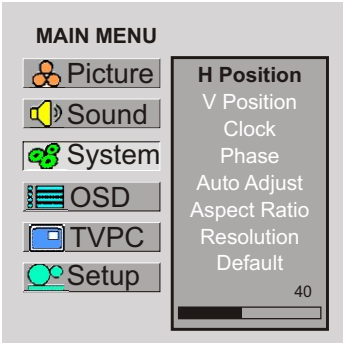
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ to select **H position** or **V position** item.

5 Press ◀ or ▶ to adjust the value of the item until the screen is well-aligned.



Adjusting Clock and Phase

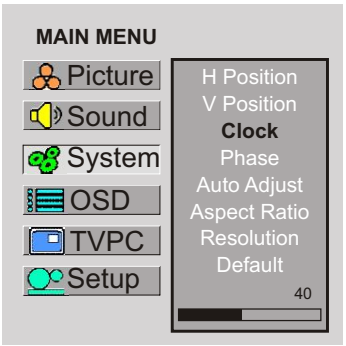
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ to select **Clock** or **Phase** item.

5 Press ◀ or ▶ to adjust the value of the item until the screen is well-aligned.



Adjust the clock frequency of the set's internal clock signal. If shimmering or rainbow-like noise is apparent in the image, try adjusting the clock frequency setting.
You may find that images blur, depending on the clock phase of your PC's Processor. If you experience blurring , you can obtain a clearer image by adjusting the phase setting.

Adjusting the Picture Automatically

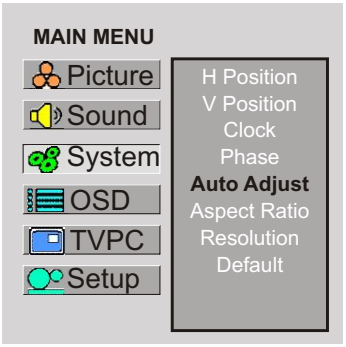
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **Auto Adjust** item.

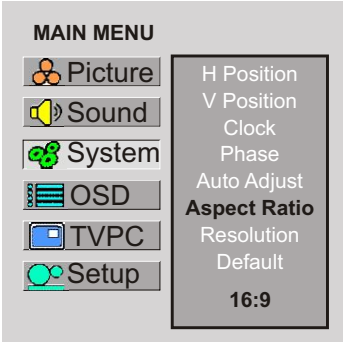
5 Press **OK** to confirm.



The unit automatically adjusts phase, clock or position, etc.
The Auto Adjust function only works when the picture is displayed in 16:9 with full screen.

Setting System In VGA Mode(continued)

Adjusting Screen Aspect



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to highlight **Aspect Ratio** item.

5 Press **OK** repeatedly to select **4:3** or **16:9**.

Note:

*You may quickly select the screen aspect by using the **ASPECT** button on the remote control.*

Displaying Resolution Information

You may quickly display the resolution information by using the **Resolution** item.

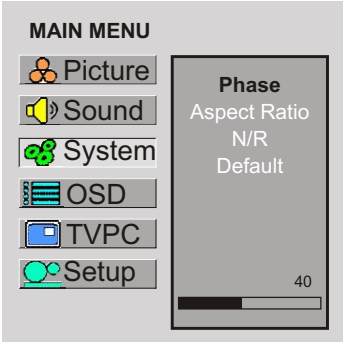
Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System (continued)

Setting System In YPbPr Mode

Adjusting Phase



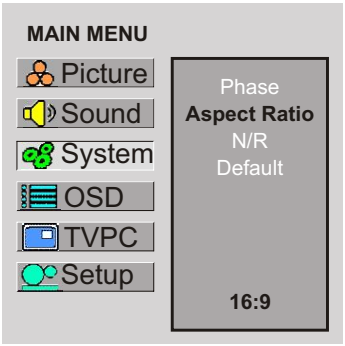
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.
The **Phase** item will be highlighted automatically.

4 Press ◀ or ▶ repeatedly to adjust the value.

Adjusting Screen Aspect



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to highlight **Aspect Ratio** item.

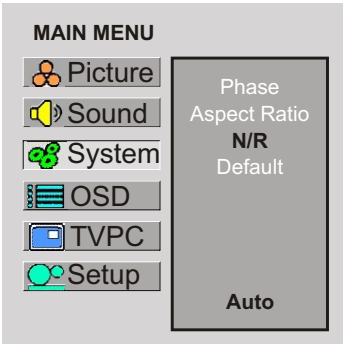
5 Press **OK** repeatedly to select a desired aspect ratio.

For 480i or 480P signal format, you can select the image aspect ratio between **4:3**, **16:9, Panorama** and **Zoom**.
For 720P or 1080i signal format, you can select the image aspect ratio between **4:3** and **16:9**.

Note:

*You may quickly select the screen aspect by using the **ASPECT** button on the remote control.*

Reducing Picture Noise



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **N/R** item.

5 Press **OK** repeatedly to select **Off**, **Auto**, **Strong**, **Middle** or **Weak**.

Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System In DVI Mode

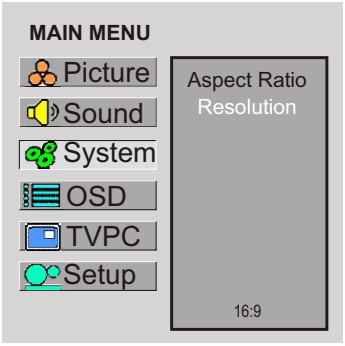
Adjusting Screen Aspect

1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.
The **Aspect Ratio** item will be highlighted automatically.

4 Press **OK** repeatedly to select **4:3** or **16:9**.



Note:

*You may quickly select the screen aspect by using the **ASPECT** button on the remote control.*

Displaying Resolution Information

1 Press **MENU** to display the menu main page.

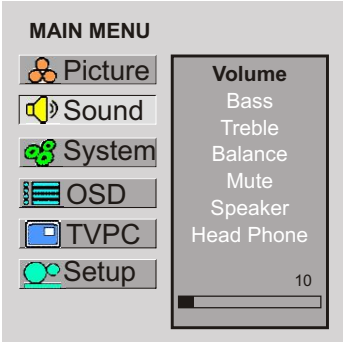
2 Press ▲ or ▼ repeatedly to select **System** item.

3 Press **OK** to access the submenu.

4 Press ▼ to select **Resolution** item.
Now the resolution information will be displayed.

Setting Sound

Customizing the Sound



1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **Sound** item.

3 Press **OK** to access the submenu.

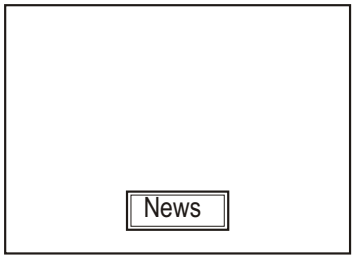
4 Press ▲ or ▼ repeatedly to select the option items you want to adjust.

5 Press ◀ or ▶ to adjust the value or **OK** to toggle settings.

Option	Function	Operation	Range
Volume	Adjusts volume value.	▶ : stronger ◀ : weaker	0~100
Bass	Adjusts Bass (low sounds)	▶ : stronger ◀ : weaker	0~100
Treble	Adjusts Treble (high sounds).	▶ : stronger ◀ : weaker	0~100
Balance	Adjusts volume balance (left and right volumes).	▶ :Higher volume from right speaker. ◀ :Higher volume from left speaker.	0~100
Mute	Mutes the sound	Use OK to toggle	On or Off
Speaker	Turns on or off speaker sound output	Use OK to toggle	On or Off
Head Phone	Turns on or off headphone sound output	Use OK to toggle	On or Off

Using the Preset Sound Mode

Use the **SOUND MODE** button to quickly select sound mode.
There are three preset sound modes (**Movie**, **Music** and **News**) and one user-set sound mode (**User**). Each preset mode has its own sound settings (Bass and Treble).
Movie: Select for a movie program.
Music: Select for a music program.
News: Select for a speech or conversation program.
Adjusted settings are stored in **User** mode.

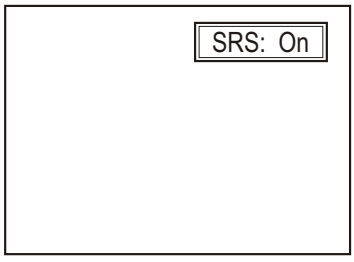


Setting SRS effect

Use the **SRS** button to quickly turn on or off the SRS effect.

SRS (Sound Retrieval System®) is an audio enhancement technology that restores the spatial cues that are present in a live listening environment and processes it to provide a natural 3D sound field.

* The SRS symbol are trademark of SRS Labs,Inc.
SRS technology is incorporated under license from SRS Labs, Inc.



Note:

*When the **SRS** effect is set to **On,** the **SRS** function may affect the setting of **Balance** item.*

Adjusting OSD Position

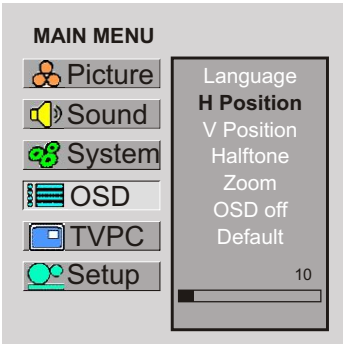
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **OSD** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **H Position** or **V Position** item.

5 Press ◀ or ▶ to adjust the OSD position.



Adjusting OSD Transparency

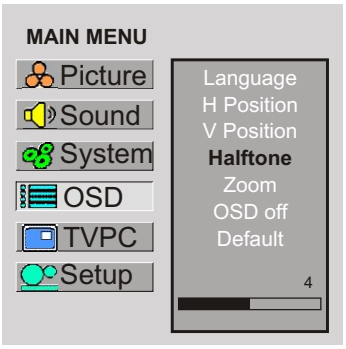
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **OSD** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **Halftone** item.

5 Press ◀ or ▶ to adjust the OSD transparence.



Zooming OSD Menu

1 Press **MENU** to display the menu main page.

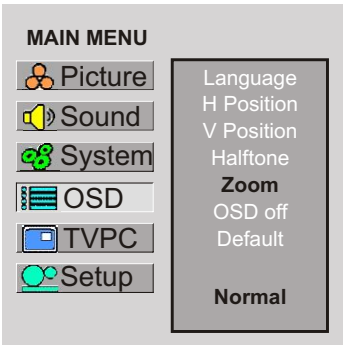
2 Press ▲ or ▼ repeatedly to select **OSD** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **Zoom** item.

5 Press **OK** repeatedly to select **Normal** or **Zoom**.

Note:
*When you zoom in the OSD menu, the **V position** item is unadjustable*



Setting OSD Off Time

This setting allows you to set the time that the OSD for the main menu is displayed onscreen.

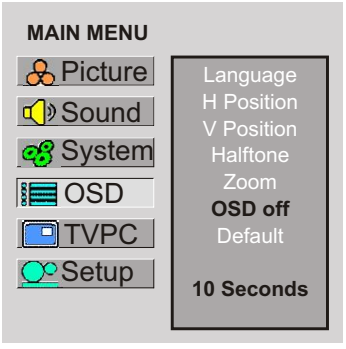
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **OSD** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **OSD Off** item.

5 Press **OK** repeatedly to select a proper time.
You may select between 5 seconds, 10 seconds, 20 seconds, 50 seconds or 200 seconds.



Loading default values

You may quickly load default values by using the **Default** item.

TVPC Operations

Viewing the TVPC

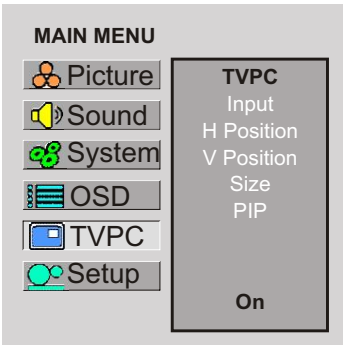
*The **TVPC** function is available only when the main frame is in **VGA/DVI** mode and the aspect ratio is in 16:9 and the vertical frequency is 60 Hz.*

1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **TVPC** item.

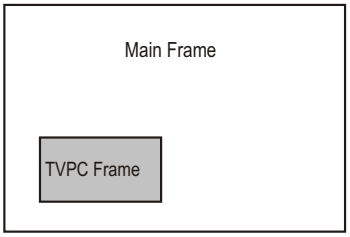
3 Press **OK** to access the submenu.
The **TVPC** item will be highlighted automatically.

4 Press **OK** to select **On** or **Off**.



Note:

- *You may quickly open or close TVPC frame by using the **TV/PC** button directly.*
- *Audio is from the main picture only.*



Selecting the Signal Input for the TVPC Frame

1 Press **MENU** to display the menu main page.

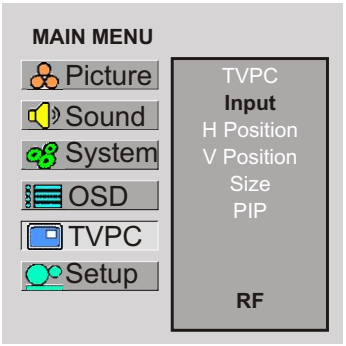
2 Press ▲ or ▼ repeatedly to select **TVPC** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **Input** item.

5 Press **OK** repeatedly to select signal input for the TVPC frame.

You may select **Video1**, **Video2** or **YPbPr** for the TVPC Frame.



Note:

*You may quickly select signal input for the TVPC frame by using the **PIP INPUT** button.*

Changing the Position of the TVPC Frame

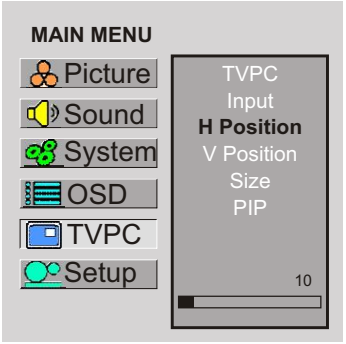
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **TVPC** item.

3 Press **OK** to access the submenu.

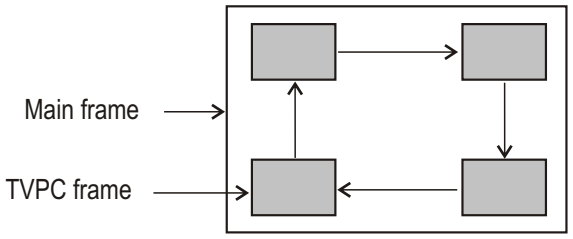
4 Press ▲ or ▼ repeatedly to select **H Position** or **V Position** item.

5 Press ◀ or ▶ to adjust the TVPC frame position.



Note:

You can quickly adjust TVPC position by using the ▲ ▼ ◀ ▶ button.



Adjusting the Size of TVPC Frame

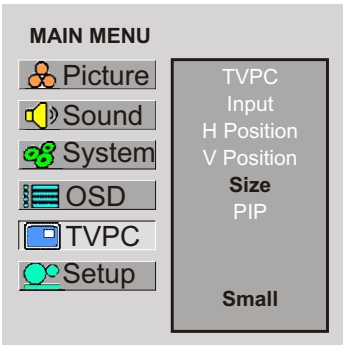
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **TVPC** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **Size** item.

5 Press **OK** to adjust the TVPC frame size.



Note:

*You may quickly adjust TVPC size by using the **SIZE** button.*

Viewing Picture-by-Picture

You may view double windows by using **PIP** function.

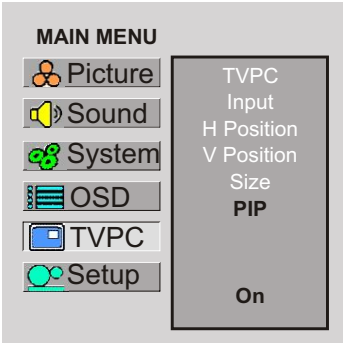
1 Without TVPC function working, press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **TVPC** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **PIP** item.

5 Press **OK** to turn on or off **PIP** function.



Note:

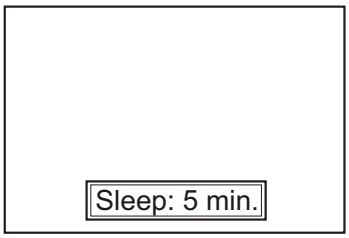
- *You can quickly switch to PIP mode by using the **PIP** button.*
- *In PIP mode, the H Position and V Position item do not work if they are adjusted.*

Using Hotkeys

Setting Sleep Timer

Press the **SLEEP** button repeatedly to set a sleep time to automatically turn off the unit.
Each press of the button, the value changes as below.

Off → 5 minutes → 10 minutes → 15 minutes → 30 minutes



To pause the Picture

Press the **PAUSE** ⏸ button to hold on the image on the screen (the video sources still run).
Press again to reactivate the image.

Note:
The PAUSE function works in AV mode only.
For the sake of protecting the screen, please do NOT pause a picture for a long time.

Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

Note:
The Caption feature only works in AV mode.
Not all the videos will offer closed captioning. Please look for the CC symbol to ensure that captions will be shown.

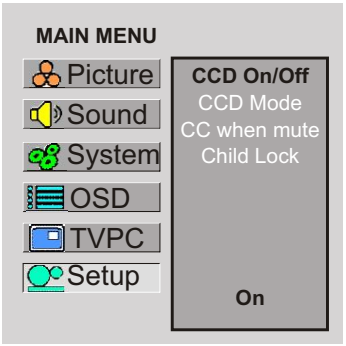
Turning Closed Caption On or Off

1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **Setup** item.

3 Press **OK** to access the submenu.
The **CCD On/Off** item will be highlighted automatically.

4 Press **OK** to select **On** or **Off**.



Setting Closed Caption

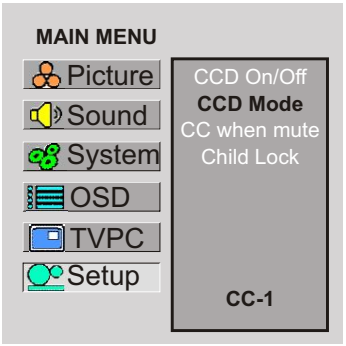
1 Press **MENU** to display the menu main page.

2 Press ▲ or ▼ repeatedly to select **Setup** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **CCD mode** item.

5 Press **OK** repeatedly to select a desired mode.



You may select between CC-1, CC-2, CC-3, CC-4, T-1, T-2, T-3 and T-4.
The Closed Caption broadcasts can be viewed in two modes: CAPTION and TEXT. For each mode, four channels are available.
The [CAPTION] mode shows subscripts of dialogues and commentaries of video programs while allowing a clear view of the picture.
The [TEXT] mode displays various information over the picture that is independent of the video programs.

Note:
*You may quickly select CCD mode by using the **CAPTION** button directly.*

Setting CC When Mute

1 Press **MENU** to display the menu main page.

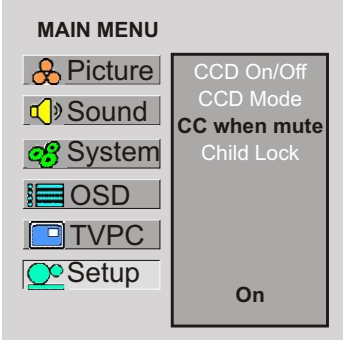
2 Press ▲ or ▼ repeatedly to select **Setup** item.

3 Press **OK** to access the submenu.

4 Press ▲ or ▼ repeatedly to select **CC when mute** item.

5 Press **OK** to select **On** or **Off**.

If you set this item to **On**, the unit display closed caption when you mute the sound.



Adjusting Child Lock Settings

Child Lock

This function allows video programs to be restricted and video usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.
Restriction of video programs includes two ratings that contain information about the program: the MPAA rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.
Since a video program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

Note: Child Lock function only works in AV mode.

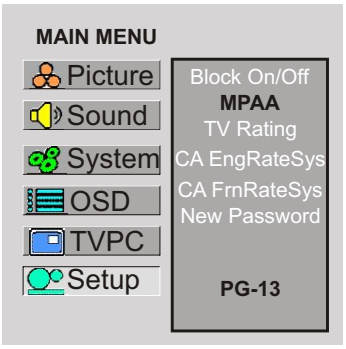
[1] Movie Rating (MPAA)

Rating		
age based	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
	PG-13	PARENTAL STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	X	X Rating is an older rating that is unified with NC-17 but may be encoded in the data of older movies.
	N/A	NOT RATED.

Note:
The Movie rating is only age-based.

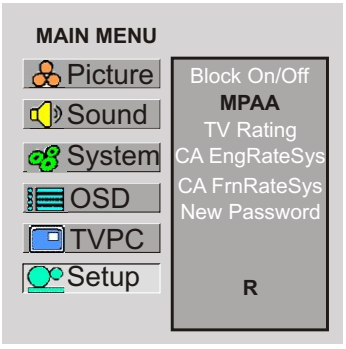
Example 1:

"PG-13" in the age-based rating is blocked, this will automatically block the higher ratings "R", "NC-17", "X" also.

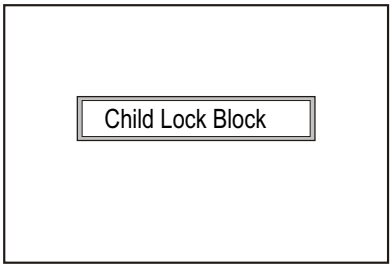


Example 2:

"R" in the age-based rating is blocked, this will automatically block the higher rating "NC-17", "X" also.



"**Child Lock Block**" with a green screen will be displayed if you watch the program with Program Rating data as same as you configured.



[2] TV Rating

Rating		content based ← →				
		D	L	S	V	FV
age based	TV-Y (All children)	×	×	×	×	×
	TV-Y7 (Direct to Older Children)	×	×	×	×	●
	TV-G (General Audience)	×	×	×	×	
	TV-PG (Parental Guidance Suggested)	●	●	●	●	
	TV-14 (Parents Strongly Cautioned)	●	●	●	●	
	TV-MA (Mature Audience Only)		●	●	●	

× ——— Content Rating can be set but this Rating is not normally used.

● ——— Content Rating can be set.

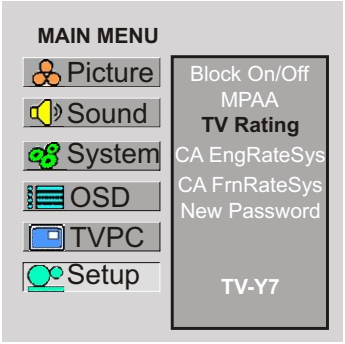
D: Sexually Suggestive Dialog
L: Adult Language
S: Sexual Situation
V: Violence
FV: Fantasy Violence

Note:

Age-based ratings can be modified by the content-based ratings but only in the combinations indicated by an ● in the table above. Choosing lower age-based rating blocks the higher age-based ratings regardless of content ratings settings.

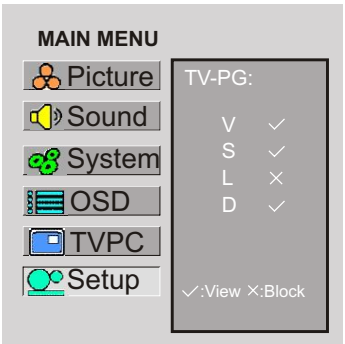
Example 1:

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA. In addition, D, L, S, V and FV in content are automatically blocked.

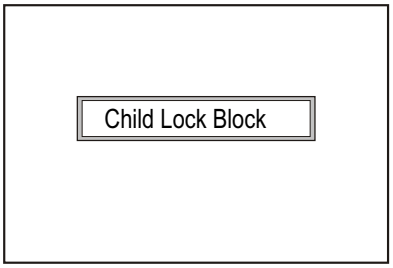


Example 2:

When TV-14 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-MA.
In addition, if you block "L" sub-rating in TV-PG, then the D, L, S, V and FV in content in TV-14 and TV-MA will automatically be blocked.



"**Child Lock Block**" with a green screen will be displayed if you watch the program with Program Rating data as same as you configured.



Adjusting Child Lock Settings (continued)

Turning Child Lock On or Off

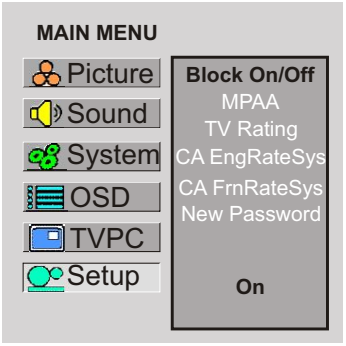
1 Press the **MENU** button to display the menu main page.;

2 Press ▲ or ▼ repeatedly to select **Setup** item;

3 Press **OK** to access the submenu;

4 Enter password with the **number buttons**.
The default password is 1234, you can change the password by yourself.
The unit allows you to access the Child Lock menu if you input the right password, or you will be denied.
The **Block On/Off** item will be highlighted automatically.

5 Press **OK** to turn on or off the Child Lock.

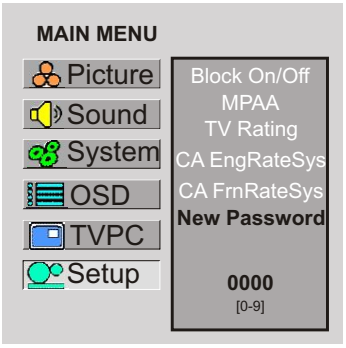


Changing the Password

1 From the password menu page, press ▲ or ▼ repeatedly to select **New Password** item.

2 Input a new 4-digit password. For example, you may set "0000" as your new password.

3 Press the **MENU** button to exit.
Be sure to write down your password and retain it for future use.

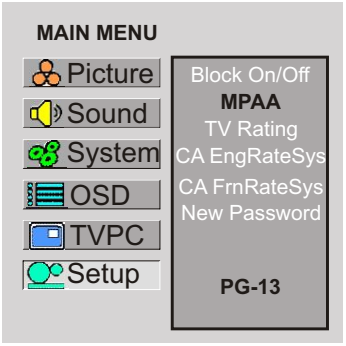


Adjusting the Movie Rating

1 From the **Child Lock** menu page, press ▲ or ▼ repeatedly to select **MPAA** item.

2 Press **OK** repeatedly to select a desired rating you want to block.
For example, "PG-13" in the age-based rating is selected, this will automatically block the higher ratings "R", "NC-17", "X" also.

3 Press the **MENU** button to exit.



Adjusting the TV Rating

1 From the **Child Lock** menu page, press ▲ or ▼ repeatedly to select **TV Rating** item.

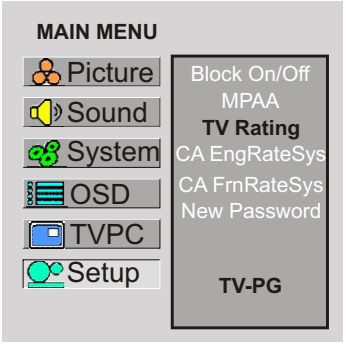
2 Press **OK** repeatedly to select a desired rating you want to block.
This will automatically block the higher age-based ratings. You may set the individual content-based ratings as follow.

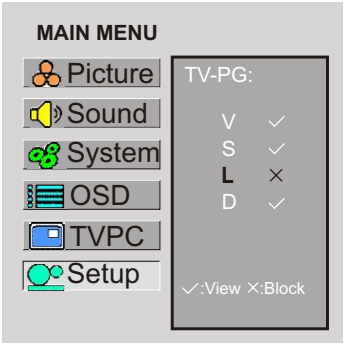
3 Press ◀ or ▶ if you want to set content-based ratings.

4 Press ▲ or ▼ repeatedly to select a desired content rating.

5 Press **OK** to block (✕) or unblock (✓) this rating.

6 Press **MENU** repeatedly to exit.



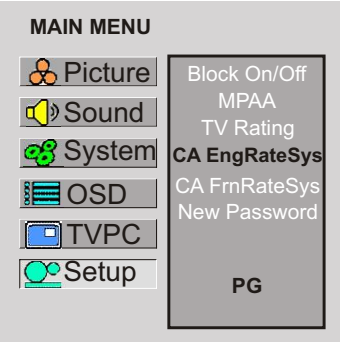


Adjusting Canadian English Rating

1 From the **Child Lock** menu page, press ▲ or ▼ repeatedly to select **CA EngRateSys** item.

2 Press **OK** repeatedly to select a desired rating you want to block.

3 Press the **MENU** button to exit.



CANADIAN ENGLISH RATING CHART

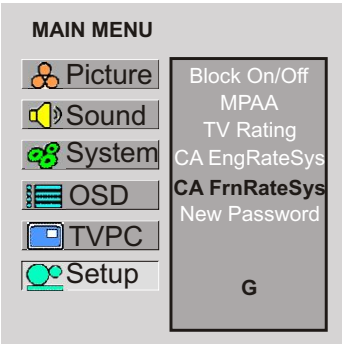
E	Exempt - Exempt programming
C	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	Intended for viewers 18 years and older and might contain depictions of violence.

Adjusting Canadian French Rating

1 From the **Child Lock** menu page, press ▲ or ▼ repeatedly to select **CA FrnRateSys** item.

2 Press **OK** repeatedly to select a desired rating you want to block.

3 Press the **MENU** button to exit.



CANADIAN FRENCH RATING CHART

E	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.
8 ANS+	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
13 ANS+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervisionstrongly suggested.
16 ANS+	Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ANS+	Only for adult viewing.Could contain frequent violent scenes and extreme violence.

Troubleshooting

Before calling for repair service, check the following items for possible remedies to the encountered symptoms.

Symptoms	Check item
No power	✎Check that the AC power cord is plugged into the mains socket. ✎Unplug the power cord, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the unit again.
No picture	✎Check video connections at the rear of the unit to see if it is properly connected to the unit. ✎Adjust the contrast and brightness settings. ✎Select a correct input. ✎Is a non-compatible signal being input?
Good picture but no sound	✎Increase the VOLUME. ✎Check that the unit is not muted. ✎Check that the Speaker item in SOUND menu is set to ON.
Good sound but poor color	✎ Adjust the contrast, color and brightness settings.
Poor picture	✎Sometimes, poor picture quality occurs when an activated S-VHS camera or camcorder is connected while another activated peripheral is connected. In this case, switch off one of the peripherals. ✎Check whether the room is too bright.
Horizontal dotted line	✎This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.). ✎Turn off the equipment.
Remote operation fails.	✎This remote control is an universal remote control, if the remote control does not work correctly when operating to the monitor, please try to press TV button. ✎Check whether the batteries are working. Replace if necessary. ✎Clean the remote control sensor lens on the unit. ✎Do not use the remote control under strong or fluorescent lighting. ✎The batteries should be inserted with polarity (+, -) aligned.
Snowy picture and noise	✎Check the A/V connections.
No stable or not synchronized VGA picture	✎Check if you have selected the correct VGA mode in your PC.
No output from one of the speakers	✎Adjust Balance in the SOUND menu.
Control buttons do not work.	✎Unplug the power cord, wait for a few seconds. Then re-plug the power cord and turn on the unit again.

Do not use in hot and cold rooms (locations)

- When the unit is used in rooms (locations) with low temperature, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.

(Storage temperature: 0°C to +50°C Working temperature: 5°C to +40°C)

Note:

If your problem is not solved, turn your unit off and then on again once.
Never attempt to repair an LCD monitor yourself.

LCD Display panel information

Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the LCD panel.

This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible LCD panel deterioration can be limited by observing the following steps:

A. Reduce the brightness/contrast setting to a minimum viewing level.

B. Do not display the fixed image for extended periods of time.

C. Turn the power off when not in actual use.

Note:

The marking or retained image on the LCD panel resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Cleaning and Maintenance

To clean this unit, wipe with a soft, dry cloth.

If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution.

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using a chemically treated cloth, read the instructions that came with the cloth carefully.

Specification

Type	LCD Monitor
Display Size diagonal	32”
Video Features	Progressive Scan
Audio Speaker System	
Maximum Audio Output	7Wx2
Power Supply	AC 100V-240V, 50/ 60Hz
Power Consumption	200W
Stand by Mode Power Consumption	<1W
Unit weight (lb)	43
TV Unit Dimension (WxHxD) (inch)	36.9 x 19.72x 4.13
Other functions	Sleep Timer (Off only)
	Picture Freeze (AV only)
Remote Control function support for full OSD features	OSD Support English, French, Spanish

Terminals

Video In	AV : RCA 75ohms composite video x 2
	S-Video : 4-pin DIN x 1
	D-Sub 15 x 1
	DVI-Dx1
	YPbPr (Support HDTV): RCA for DVD, STB x1
Video Out	RCA 75 ohms x 1
Audio In	L/R RCA for AV x 2
	Stereo mini phone Jack for PC x 1
	Stereo mini phone Jack for DVI-D x 1
	L/R RCA for YPbPr x 1
Audio Out	L/R RCA for Video Out x 1
	Headphone Jack : Stereo mini phone Jack x 1
External Control	RS232 x 1
Standard Accessories	1 User Manual
	1 Remote Control
	1 Power Cord
	2 AA Batteries

Display Format Supported by This Unit

For VGA/DVI: 640X480 @ 60Hz,72Hz,75Hz ; 800X600 @ 60Hz,72Hz,75Hz ;
1024X768 @ 60Hz,70Hz, 75Hz ; 1280X960 @ 60Hz;
1280X1024 @ 60Hz.

For YPbPr: 480P @ 60Hz; 480i @ 60Hz;
720P @ 60Hz;
1080i @ 60Hz.

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Product features, specifications and appearances are subject to change without notice.

Direct Code Setup

- Each code consists of five digits from 0 to 9 and is defined in the main UEI data base.
- The leading digit device indicators are as follows:

This is the correct leading indicator per specs.

0 Cable
1 TV
2 VCR
3 Audio

The five digit code obtained by the user from the product code book shall be programmed as follows:

[Mode] <<SETUP>> <Digit> <Digit> <Digit> <Digit> <Digit>

The single LED or current mode LED shall blink once upon each digit entry except for the last digit, where it shall blink two times to confirm that a valid code has been programmed. The unit shall turn off the LED, automatically exit the programming mode, return to the idle mode and restore the last preprogrammed codes under the following conditions:

- If any other key is pressed besides a digit key, the unit shall display one long blink, exit programming state, and restore the last preprogrammed code.
- Upon entry of an invalid key sequence or invalid code, the remote control shall display one long blink of the single LED or current physical mode LED and return to the last preprogrammed code.
- The unit shall exit programming state and return to the last preprogrammed code if 10 seconds has elapsed between digit entries.

Library Search

In the event that the device code for a particular target unit is unknown, the user shall be able to cycle the remote through the available codes for that device mode and sample functions from each code in order to find the code, which properly operates the desired target device. All keys are available to be sampled, provided they are applicable to that. The last function that was sampled before Ch up/Ch down key presses will be designated function to send for each Ch up+/Ch down- key press. Invalid key presses shall be ignored while in the programming state.

To cycle through each available device code and sample its functions:

[Mode] <<SETUP>> <9> <9> <1> < Device group number> [Function] <Ch up/Ch down> [Function] <Ch up/Ch down> ….. <SETUP>

The available FUNCTIONS within a code may be sampled as many times as desired until advancing to the next code by pressing the CH UP key or returning to the previous code by pressing the CH DOWN key. After sampling FUNCTIONS (0, 1, 2, 3, Power, Volume Up, Play, Stop, etc.), the user can continue the search with the previous (CH DOWN) or next (CH UP) code which will send the FUNCTION that was last sampled.

The search functions initial “cold start” (when no code is programmed) begins with the most popular brand of equipment to the least popular. The single LED or current physical Mode LED will illuminate each time a function is sent (when picked with IR). If the search function is activated after a code has been programmed in, the search cycle begins with the current programmed ID. Pressing either the CH UP or CH DOWN key, will increment or decrement to the next table entry and transmit the power (or other) FUNCTION associated with currently selected table entry and wait for another CH UP or CH DOWN arrow key.

Scanning of the database will be circular. The single LED or current physical Mode LED shall illuminate 3 times without transmitting IR, once it reaches back to the original ID it will stay in the Library Search mode.

Pressing **<SETUP>** listed at the end of the sequence will store the device code, which was last sampled. The remote control exits library search mode with the current device code. The current physical Mode LED blinks twice in confirmation. The remote returns to normal operation.

- If no key is pressed before Ch up/Ch down then default function to be power.
- Upon entry of an invalid key sequence, the remote control's single LED or current physical Mode LED shall display one long blink and return to the last preprogrammed code.
- The unit shall exit programming state and return to the last preprogrammed code, if 10 seconds has elapsed between digit entries.
- See the following pages for manufacturer remote codes.

Remote Control ID Code List

Setup Code For TVs

Addison	10092
Admiral	10093, 10463
Advent	10761, 10842
Aiko	10092
Aiwa	11914
Akai	10812, 10702, 10030, 10672, 11903
Albatron	10700, 10843
America Action	10180
Anam	10250, 10180, 10700
Anam National	10250, 10650
Anhua	10051
AOC	10451, 10093, 10180, 10060, 10030, 10178, 10092
Apex Digital	10748, 10765, 10879, 10767, 11943
Audiovox	10451, 10180, 10875, 10092, 10623
Baile	10661
Beijing	10812, 10661
Bell & Howell	10154
BenQ	11032
Bradford	10180
Broksonic	10236, 10463, 11911, 11938, 11905, 11935, 11929
Cailing	10748
Candle	10030
Carnivale	10030
Carver	10054
Celebrity	10000
Celera	10765
Changcheng	10051, 10661
Changhong	10156, 10765, 11156, 10767
Ching Tai	10092
Chun Yun	10000, 10180, 10700, 10092, 10843
Chung Hsin	10180, 10053
Cinema	10672
Citizen	10060, 10030, 11928, 10092
Clarion	10180
Commercial Solutions	11447, 10047
Conrowa	10156, 10145, 11156
Contec	10180
Craig	10180
Crosley	10054
Crown	10180
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166
CXC	10180
Daewoo	10154, 10451, 10180, 10030, 10178, 10672, 11928, 10092, 10661, 11909, 10623, 10700
Dayu	10661
Dell	11080
Denon	10145
Dumont	10017
Durabrand	10463, 10180, 10178, 10171, 11034

Electroband	10000
Emerson	10154, 10236, 10463, 10180, 10178, 10171, 11944, 11909, 11929, 11905, 11928, 10623, 11911
Envision	10030
Ether	10030
Firstar	10236
Fisher	10154
Fortress	10093
Fujitsu	10809, 10853
Funai	10180, 10171, 11904
Furi	10145
Futuretech	10180
Gateway	11756, 11755
GE	11447, 10047, 11454, 10051, 10451, 10180, 10030, 10178, 11917, 10092, 11907, 11922
Gibralter	10017, 10030
GoldStar	10154, 10030, 10178, 11926
Grunpy	10180
Haier	11034
Hallmark	10178
Hankook	10180, 10030, 10178
Harley Davidson	11904
Harman/Kardon	10054
Harvard	10180
Havermy	10093
Helios	10865
Hello Kitty	10451
Hisense	10156, 10748, 10145, 11156
Hitachi	10156, 10030, 10178, 11145, 10145, 10092, 11904, 11156
Hongmei	10093
Huafa	10145
Huari	10145
Huodateji	10051
Imperial Crown	10661
Infinity	10054
Inteq	10017
JBL	10054
JCB	10000
Jean	10156, 10051, 10236, 10092
Jensen	10761
Jiahua	10051
Jinfeng	10051
Jinxing	10054, 10156, 10145
JVC	10053, 11923, 11253
Kangli	10661
KEC	10180
Kenwood	10030
KLH	10765, 10767
Kolin	10180, 10150, 10053
KTV	10180, 10030
Kunlun	10051, 10661
LG	10060, 10030, 10178, 10856, 10700, 10025
Lloyd's	11904
LXI	10047, 10054, 10154, 10156, 10178

Magnasonic	11928, 11913
Magnavox	11454, 10054, 10030, 10706, 11931, 11254, 11913, 11904, 11944
Magnin	11907
Marantz	10054, 10030, 10704
Matsushita	10250, 10650
Maxent	11755
Megapower	10700
Megatron	10178, 10145
Memorex	10154, 10463, 10150, 10178, 11911, 11926, 11924, 11920, 11927
MGA	10150, 10030, 10178, 11907
Midland	10047, 10017, 10051
Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10030, 10178, 11917, 10836
Monivision	10843, 10700
Motorola	10093
MTC	10060, 10030
Mudan	10051
Multitech	10180
NAD	10156, 10178, 10866
National	10051
NEC	10154, 10156, 10051, 10053, 10030, 10178, 11704
Newave	10093, 10178, 10092
Nikko	10030, 10178, 10092
Norcent	10748, 10824
NTC	10092
Onwa	10180
Optimus	10154, 10250, 10166, 10650, 11927, 11924, 11913
Optonica	10093
Orion	10236, 10463, 11929, 11911, 11905
Panasonic	10054, 10250, 10051, 10650, 11941, 11927, 11924
Panda	10051, 10706
Penney	10047, 10156, 10051, 10060, 10030, 10178, 11926, 11907
Philco	10054, 10180, 10030, 10178
Philips	11454, 10054, 10000, 10051, 10030, 10178, 10092, 10690
Pilot	10030
Pioneer	10166, 10866, 10679
Portland	10092
Prima	10761
Princeton	10700
Prism	10051
Proscan	11447, 10047, 11922
Proton	10030, 10178
Pulsar	10017
Qingdao	10051
Quasar	10250, 10051, 11924, 10650
RadioShack	10047, 10154, 10180, 10030, 10178, 11920, 11904
RCA	11447, 10047, 11454, 10000, 10030, 10178, 11547, 11922, 1917, 10092, 11907, 11948, 10090, 10679
Realistic	10154, 10180, 10030, 10178
Rowa	10748
Runco	10017, 10030

Sampo	10154, 10093, 10030, 10178, 10171, 10700, 10650, 11755, 10092
Samsung	10154, 10156, 10060, 10812, 10702, 10030, 10178, 11060, 10814, 10092, 11903, 10090, 10766
Sansui	10463, 11904, 11935, 11929, 11911
Sanyo	10154, 10156, 10180, 10145, 11907
Sanyuan	10093
Scotch	10178
Scott	10236, 10180, 10178
Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904
Shaofeng	10145
Sharp	10093, 10030, 10650, 11917
Shen Ying	10092
Shencai	10145
Sheng Chia	10093, 10236
Skygiant	10180
Skyworth	10748
Sony	11100, 10000, 10650, 11925, 11904
Soundesign	10180, 10178
Sowa	10156, 10051, 10060, 10178, 10092
Squareview	10171
SSS	10180
Starlite	10180
Studio Experience	10843
Supreme	10000
SVA	10748, 10865
Sylvania	10054, 10030, 10171, 11944, 11931
Symphonic	10180, 10171, 11913, 11904
Synco	10000, 10451, 10093, 10060, 10178, 10092
Tacico	10178, 10092
Tandy	10093
Tashiko	10092, 10650
Tatung	10054, 10154, 10156, 10051, 10060, 11156, 11756, 11254
Technics	10250, 10051
Techwood	10051
Teco	10051, 10093, 10178, 10092
Teknika	10054, 10180, 10150, 10060, 10092
Telefunken	10702
Tera	10030
Thomas	11904
Tiane	10093
TMK	10178
TNCi	10017
Tobo	10748
Toshiba	10154, 10156, 10060, 10145, 11945, 11704, 11936, 11156, 11935, 10650, 11918
Tuntex	10030, 10092
TVS	10463
V Inc.	11756, 10885, 10864
Vector Research	10030
Victor	10250, 10053, 10650
Vidikron	10054
Vidtech	10178
Viewsonic	11755, 10885, 10864
Wards	10054, 10030, 10178, 10866, 11156
Warumaia	10661
Waycon	10156
White Westinghouse	10463, 11909, 10623
Yamaha	10030
Yapshe	10250
Zenith	10017, 10463, 10178, 11904, 11929, 11911, 11909, 10092

Setup Code For VCRs

ABS	21972
Admiral	20048, 20209
Aiko	20278
Aiwa	20037, 20479
Alienware	21972
America Action	20278
American High	20035
Amoisonic	20479
Anam	20162, 20037, 20240, 20278
Anam National	20162
Asha	20240
Audiovox	20037, 20278
Beaumark	20240
Bell & Howell	20104
Broksonic	20184, 20121, 20209, 20002, 20479
Calix	20037
Canon	20035
Carver	20081
CCE	20072, 20278
Changhong	20048, 20081
Citizen	20037, 20278
Colt	20072
Craig	20037, 20047, 20240, 20072
Curtis Mathes	20060, 20035, 20162
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20104, 20278
Dell	21972
Denon	20042
DirecTV	20039, 20038
Electrohome	20037
Electrophonic	20037
Emerex	20032
Emerson	20035, 20037, 20184, 20240, 20045, 20121, 20043, 20209, 20002, 20278, 20479
Fisher	20047, 20104
Fuji	20035, 20033
Fujitsu	20045
Gateway	21972
GE	20060, 20035, 20240
General	20045
Go Video	20432
GoldStar	20037, 20209, 20038, 20225
Haojie	20240
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
iBUYPOWER	21972

JVC	20045, 20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
Kolin	20043
LG	20037, 20045, 20042, 20209, 20038
Logik	20072
LXI	20037
Magnavox	20035, 20039, 20081
Magnin	20240
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20104, 20209, 20479
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043
Motorola	20035, 20048
MTC	20240
Multitech	20072
NEC	20035, 20037, 20048, 20104, 20067, 20038
Newave	20037
Nikko	20037
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048, 20104, 20432
Orion	20184, 20209, 20002, 20479
Panasonic	21062, 20035, 20162, 20616, 20225
Penney	20035, 20037, 20240, 20042, 20038
Pentax	20042
Philco	20035, 20479
Philips	20035, 20081, 20739, 20618
Pilot	20037
Pioneer	20042, 20067
Polk Audio	20081
Profitronic	20240
Proscan	20060
Protec	20072
Pulsar	20039
Qisheng	20060
Quasar	20035, 20162
Radix	20037
Randex	20037
RCA	20060, 20035, 20240, 20042, 20880
Realistic	20035, 20037, 20048, 20047, 20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20432
Sanky	20048, 20039
Sansui	20067, 20209, 20479
Sanyo	20047, 20240, 20104

Scott	20184, 20045, 20121, 20043
Sears	20035, 20037, 20047, 20042, 20104
Sharp	20048, 20209
Shintom	20072
Shogun	20240
Singer	20072
Sonic Blue	20616
Sony	20035, 20032, 20033, 20636, 21972
STS	20042
Sylvania	20035, 20081, 20043
Systemax	21972
Tagar Systems	21972
Tashiko	20037
Tatung	20045, 20067
Technics	20035, 20162
Teco	20035, 20037, 20048, 20038
Teknika	20035, 20037
Tivo	20636, 20618, 21503, 20739
TMK	20240
Toshiba	20045, 20042, 20067, 20043, 21503, 21008, 21972
Totevision	20037, 20240
Touch	21972
Unitech	20240
Vector	20045
Vector Research	20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20240
Viewsonic	21972
Wards	20060, 20035, 20048, 20047, 20081, 20240, 20042, 20072
White Westinghouse	20209, 20072
XR-1000	20035, 20072
Yamaha	20038
Zenith	20039, 20033, 20209, 20479
ZT Group	21972

Setup Code For Digital Video Disks

Aiwa	20641, 21912
Akai	20770
Allegro	20869
Apex Digital	20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915
Blaupunkt	20717
Blue Parade	20571
Broksonic	20695
Changhong	20627, 21061
CineVision	20869
Coby	21086
Curtis Mathes	21087
CyberHome	21024, 21023, 21129, 20816, 21117
Daewoo	20833, 21172, 20869
Denon	20490
DVD2000	20521
Emerson	20591, 20675
Enterprise	20591

Fisher	21919
Funai	20675
Gateway	21158, 21073
GE	20522, 20717
Go Video	20744, 20833, 21099, 20783, 21075, 20869, 21730
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21919
Hiteker	20672
Initial	20717
Integra	20627, 21924
JBL	20702
JVC	20558, 20623, 20867
Kenwood	20490, 20534
KLH	20717, 21020, 21149
Koss	20651, 21980
Lasonic	20798
LG	20591, 20869, 20801
Liquid Video	21980
Lite-On	21158, 21058
Loewe	20511
Magnavox	20503, 20539, 21976, 21914, 20675
Marantz	20539
Memorex	20695
Microsoft	20522
Mintek	20717
Mitsubishi	21521, 20521
Nesa	20717
Norcent	21003
Onkyo	20503, 20627, 21924, 20792
Oritron	20651, 21980
Panasonic	20490, 21762, 21990
Philips	20503, 20539, 20646, 21914
Pioneer	20525, 20571
Polaroid	21086, 21061
Polk Audio	20539
Portland	20770
Proscan	20522
Qwestar	20651
RCA	20522, 20571, 20717, 20822
Rio	20869
Rotel	20623
Sampo	20752, 20698
Samsung	20490, 20573, 21932, 21075, 20820
Sansui	20695
Sanyo	20695
Sharp	20630, 20752
Sharper Image	21117
Sherwood	20770
Shinco	20717
Shinsonic	20533
Sonic Blue	20869, 21099
Sony	20533, 20864, 21033, 21904, 21903
SVA	20717
Sylvania	20675
Symphonic	20675

Teac	20717, 21984, 20809
Technics	20490
Theta Digital	20571
Toshiba	20503, 20695
Urban Concepts	20503
Xbox	20522
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20869

Setup Code For Cable Converters

ABC	00003, 00008, 00014
Americast	00899
Bell & Howell	00014
Bell South	00899
Clearmaster	00883
ClearMax	00883
Coolmax	00883
Daeryung	01877, 00877, 00477, 00008
Digi	00637
Director	00476
Dumont	00637
Gehua	00476
General Instrument	00476, 00810, 00276, 00003, 00014
GoldStar	00144
Hamlin	00009, 00273
Hitachi	00014
Jerrold	00476, 00810, 00276, 00003, 00012, 00014
KNC	00008
LG	00144
Memorex	00000
Motorola	00476, 00810, 00276, 01254, 01376
MultiVision	00012
Pace	01877, 00237
Panasonic	00000, 00008, 00107
Panther	00637
Paragon	00000
Philips	00317, 01305
Pioneer	01877, 00877, 00144, 00533
Pulsar	00000
Quasar	00000
RadioShack	00883
Regal	00279, 00273
Runco	00000
Samsung	00000, 00144
Scientific Atlanta	01877, 00877, 00477, 00008
Sony	01006
Starcom	00003, 00014
Supercable	00276
Supermax	00883

Tocom	00012
Torx	00003
Toshiba	00000
Trans PX	00276
Tristar	00883
TS	00003
V2	00883
Viewmaster	00883
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899

Setup Code For Satellite Receivers

AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01392, 01640, 01442, 01414, 01108
Dish Network System	01005, 00775, 01505
Dishpro	01005, 00775, 01505
Echostar	01005, 00775, 01505
Expressvu	00775
GE	00566
General Instrument	00869
GOI	00775
Goodmans	01246
Hisense	01535
Hitachi	00819, 00222, 01250
HTS	00775
Hughes Network Systems	01142, 00749, 01749, 01442
I-Lo	01535
JVC	00775
LG	01414, 01226
Magnavox	00724, 00722
Memorex	00724
Mitsubishi	00749
Motorola	00869
NEC	01270
Next Level	00869
Panasonic	00247, 00701
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00392, 00566, 00855, 00143, 01392
Samsung	01276, 01109, 01108
Sanyo	01219
SKY	00856
Sony	00639, 01640
Star Choice	00869

Tivo	01142, 01442
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01640, 01392
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Voom	00869
Zenith	00856, 01856

Setup Code For Audio Amplifiers

Bose	30674
GE	30078
JVC	30331
Marantz	30321
Nakamichi	30321
NEC	30264
Optimus	30395
Realistic	30395
Sansui	30321
Shure	30264
Sony	30689
Soundesign	30078
Victor	30331
Wards	30078
Yamaha	30354, 30133

Setup Code For CD Players

Aiwa	30157
Burmester	30420
California Audio Labs	30029
Carver	30157, 30179
Denon	30873
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Fisher	30179
Garrard	30420
Genexxa	30032
Harman/Kardon	30157, 30173
Hitachi	30032
Integra	30101
JVC	30072
Kenwood	30826, 30626, 30028, 30037, 30036, 30190
Krell	30157
Linn	30157
Magnavox	30157
Marantz	30626, 30029, 30157
MCS	30029
Miro	30000

Mission	30157
MTC	30420
NSM	30157
Onkyo	30868, 30101
Optimus	31063, 30000, 30032, 30037, 30420, 30179, 31075, 30145
Panasonic	30029
Parasound	30420
Philips	30626, 30157
Pioneer	31063, 31062, 30032
Polk Audio	30157
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	31075
RCA	31062, 30032, 30420, 30179, 30053
Realistic	30420, 30179
Rotel	30157, 30420
SAE	30157
Sansui	30157
Sanyo	30179
SAST	30157
Sharp	30861, 30037
Silsonic	30888, 30036
Sonic Frontiers	30157
Sony	30490, 30000, 30100
Soundesign	30145
TAG McLaren	30157
Tascam	30420
Teac	30420
Technics	30029
Victor	30072
Wards	30157, 30053
Yamaha	30888, 30036
Zonda	30157

Setup Code For Audio Amp/Tuners

ADC	30531
Aiwa	31405, 31243, 30121
Anam	31609, 31074
Audiotronic	31189
Bose	31229
Capetronic	30531
Carver	31189
Coby	31263
Denon	31360, 31142, 30904
Fonmix	31360
Glory Horse	31263

Harman/Kardon	30110
Hitachi	31273
Inkel	30027
Integra	30135
JBL	30110
JVC	30074, 31263
Kenwood	31313, 31570, 30027
KLH	31428
Magnavox	31189, 31269, 30531
Marantz	31189, 31269, 30039
MCS	30039
Onkyo	30842, 30135
Optimus	31023, 30670, 30531, 31074
Panasonic	31518, 30039
Philips	31189, 31269
Pioneer	31023, 30150, 30014, 30630, 30531
Proscan	31254
Qisheng	31609
Quasar	30039
RadioShack	31263
RCA	31023, 31609, 31254, 30531, 31074
Sharper Image	31263
Silsonic	30176
Sony	31058, 31441, 31258, 31759
Soundesign	30670
Stereophonics	31023
Sunfire	31313
Teac	31074, 31267
Technics	31308, 31518, 30039
Thorens	31189
Victor	30074
Wards	30014
Yamaha	30176, 31276, 31176

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